

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2005/051558

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01P7/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01P 605D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPD-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 510 060 A (STARMUHLER ERWIN) 5 May 1970 (1970-05-05)	1-3,11, 16,17
A	column 4, line 21 - column 5, line 6; figure 2	1,5,10, 13,14
Y	WO 03/074911 A (DEGRAVE KEN ; BADER MARK (US); COUSINEAU CORY (US); LASECKI MIKE P (US) 12 September 2003 (2003-09-12)	1-3,11, 16,17
A	page 6, line 15 - page 7, line 11; figures 5,6	4,6
A	US 4 539 942 A (MAE HISAO ET AL) 10 September 1985 (1985-09-10)	1,3,10, 14,15,17
A	column 26, lines 8-57; figure 8	
A	US 3 858 800 A (WONG BACKMAN) 7 January 1975 (1975-01-07)	1,3,10
	column 3, lines 4-26; figure 2	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

20 July 2005

Date of mailing of the international search report

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3510060	A	05-05-1970	DE 1295255 B	14-05-1969
			GB 1115113 A	29-05-1968
			JP 54026653 B	05-09-1979
			SE 352692 B	08-01-1973
WO 03074911	A	12-09-2003	AU 2003225645 A1	16-09-2003
			CA 2477958 A1	12-09-2003
			EP 1488147 A2	22-12-2004
			WO 03074911 A2	12-09-2003
			US 2003217775 A1	27-11-2003
US 4539942	A	10-09-1985	JP 1759656 C	20-05-1993
			JP 4044084 B	20-07-1992
			JP 60113017 A	19-06-1985
			DE 3440504 A1	05-06-1985
US 3858800	A	07-01-1975	US 3858801 A	07-01-1975
			CA 1012516 A1	21-06-1977
			DE 2417897 A1	31-10-1974
			FR 2226601 A1	15-11-1974
			GB 1443266 A	21-07-1976
			IT 1009480 B	10-12-1976
			JP 1251846 C	26-02-1985
			JP 50048529 A	30-04-1975
			JP 59026831 B	30-06-1984
			BE 813910 A1	16-08-1974